

FIG. 1

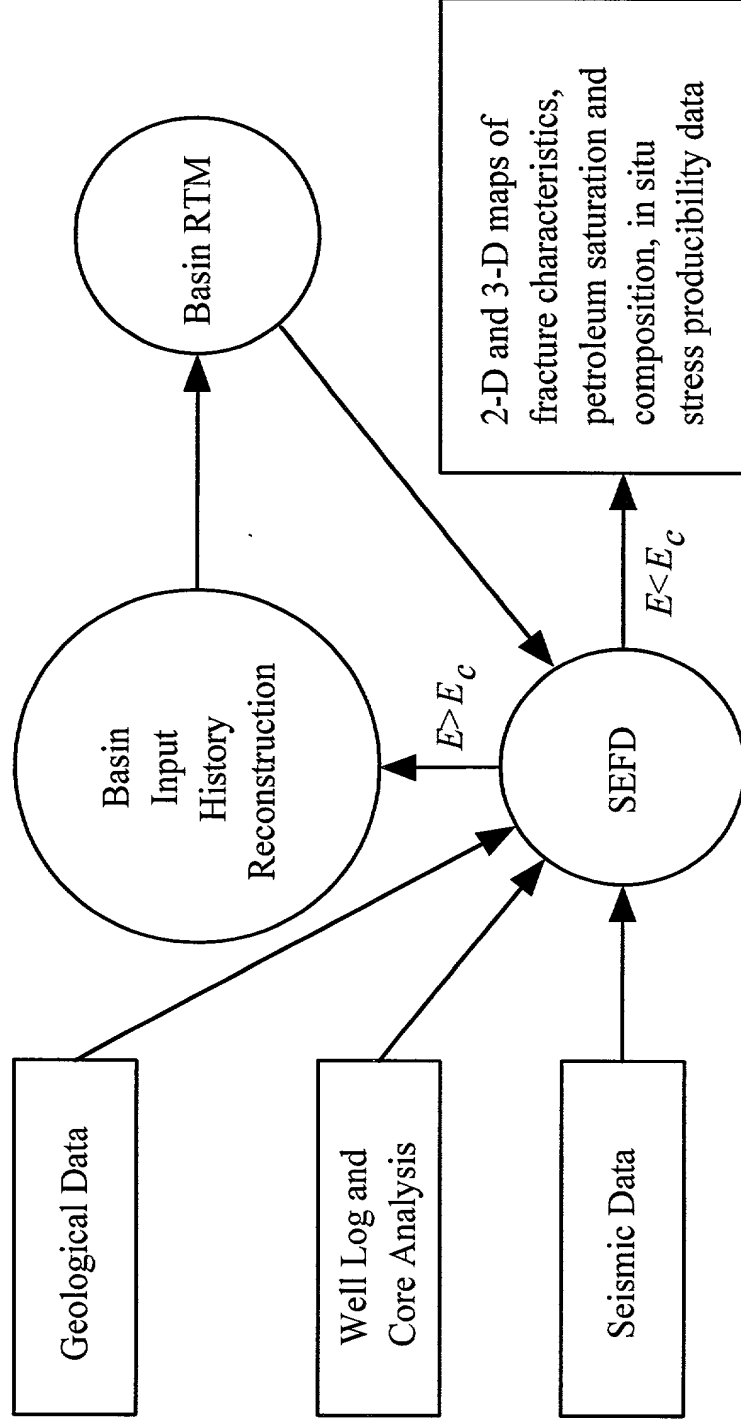


FIG. 2

System	Producing Lithology	Tectonics	Age (My)
Cretaceous (Austin Chalk)	Very fine-grained carbonate	Salt withdrawal, extensional	100
Devonian (New Albany Shale)	Siliciclastic, very fine-grained siliciclastics	Compression, faulting	360
Cretaceous (Mesaverde)	Fine-grained sandstones	Compression, thrusting	70
Silurian-Pennsylvanian (Anadarko Basin)	Variety	Deep subsidence and faulting	400-280
Ordovician (Permian Basin)	Vuggy and fractured carbonate (Ellenburger, etc.)	Uplift, wrenching	500

FIG. 3

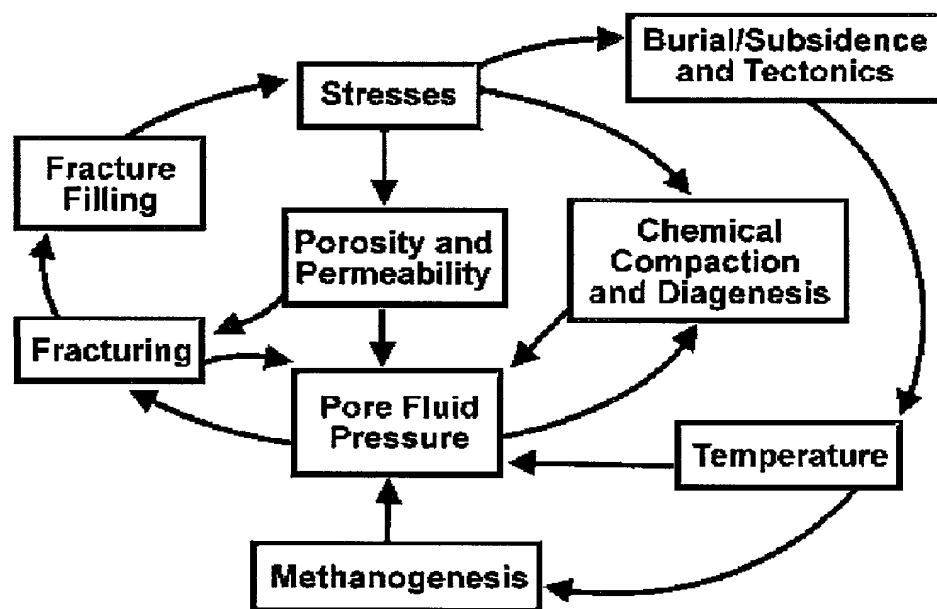


FIG. 4a

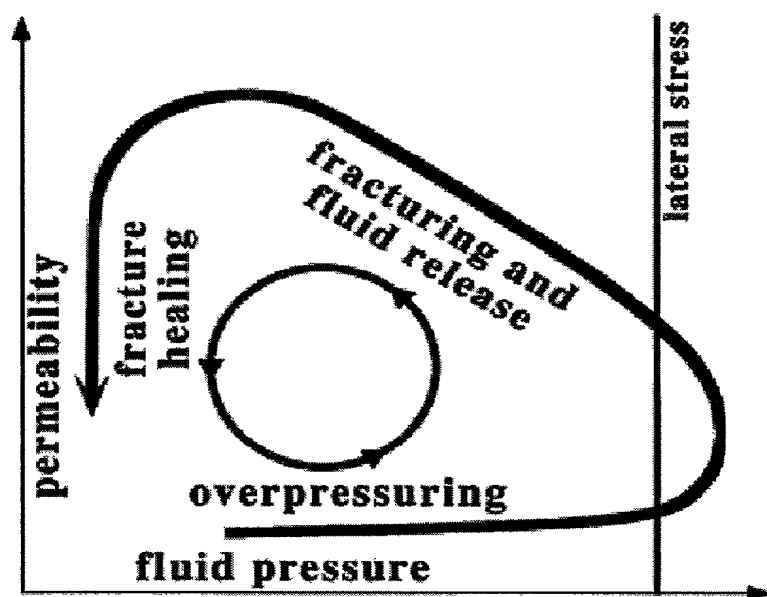


FIG. 4b

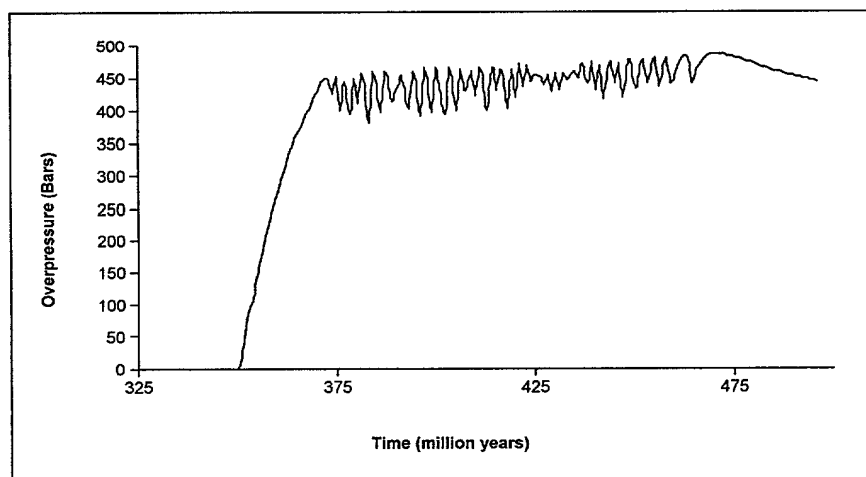


FIG. 5

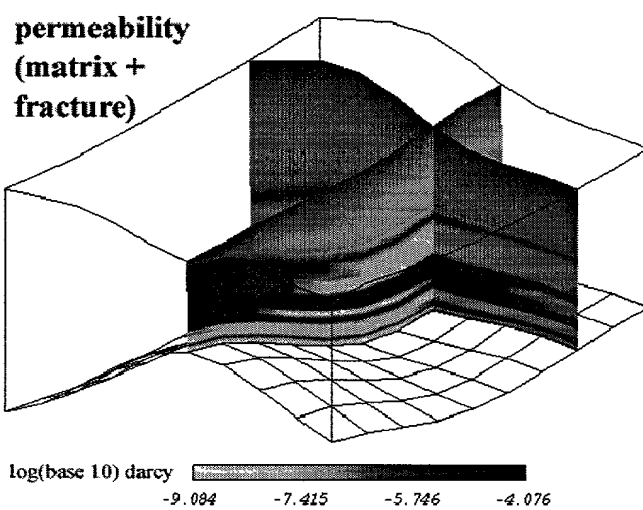


FIG. 6a

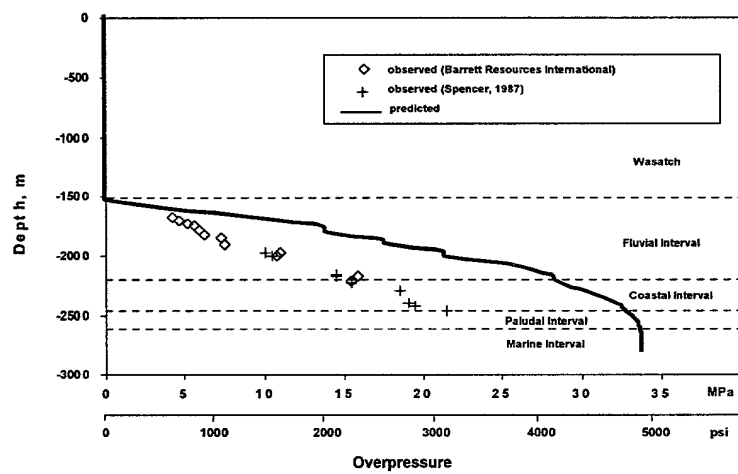


FIG. 6b

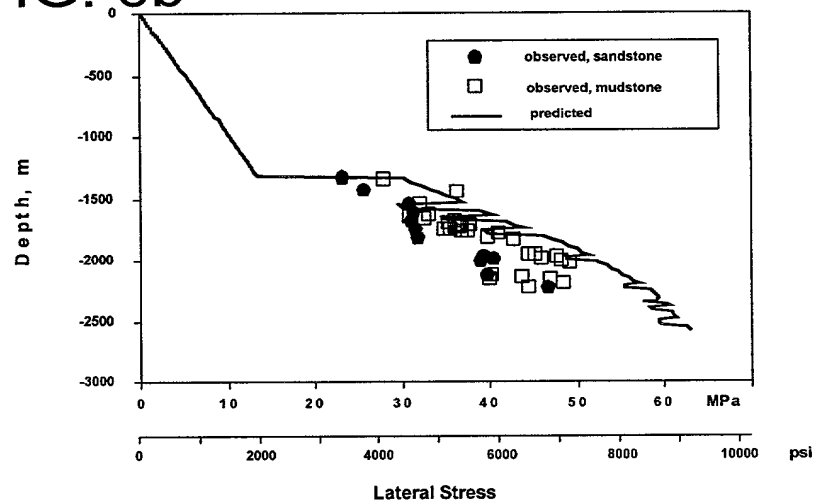




FIG. 6c

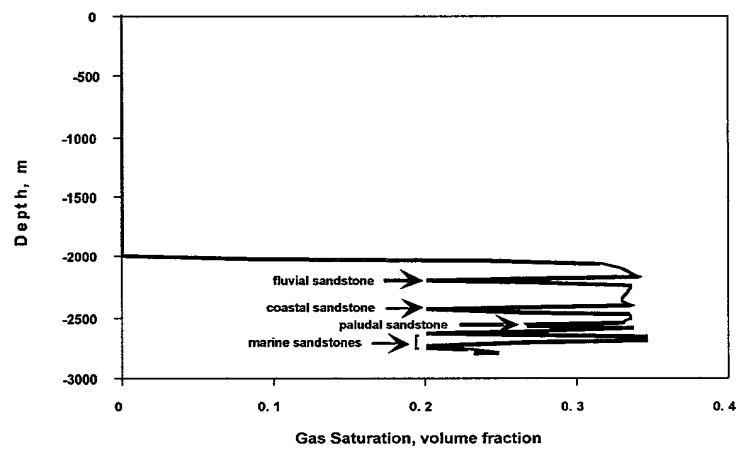


FIG. 7

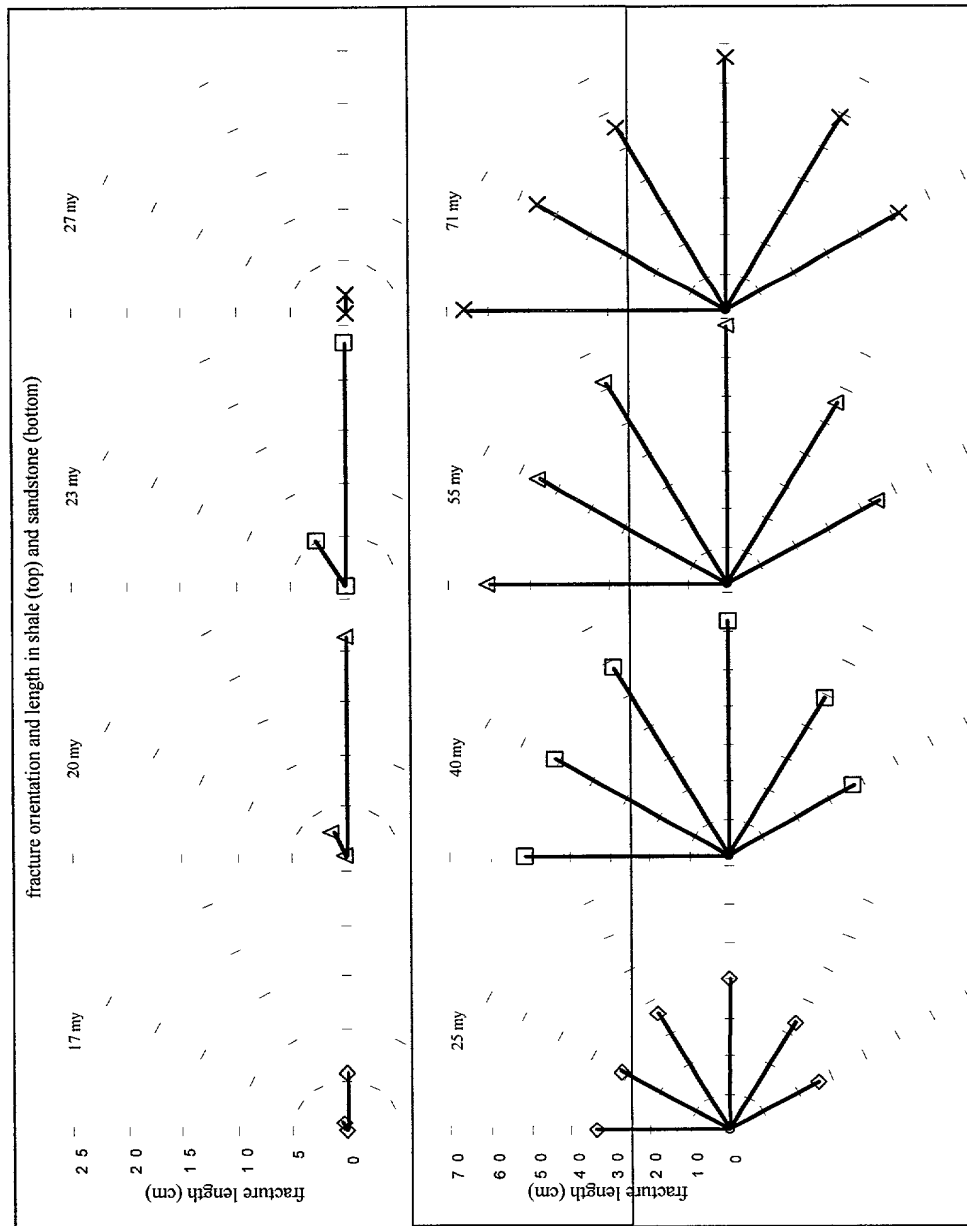


FIG. 8a

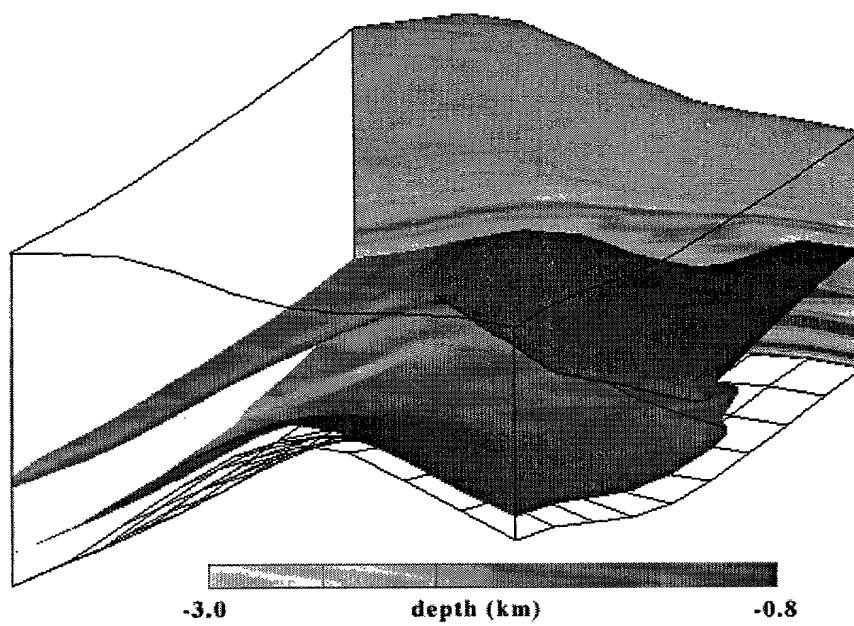


FIG. 8b

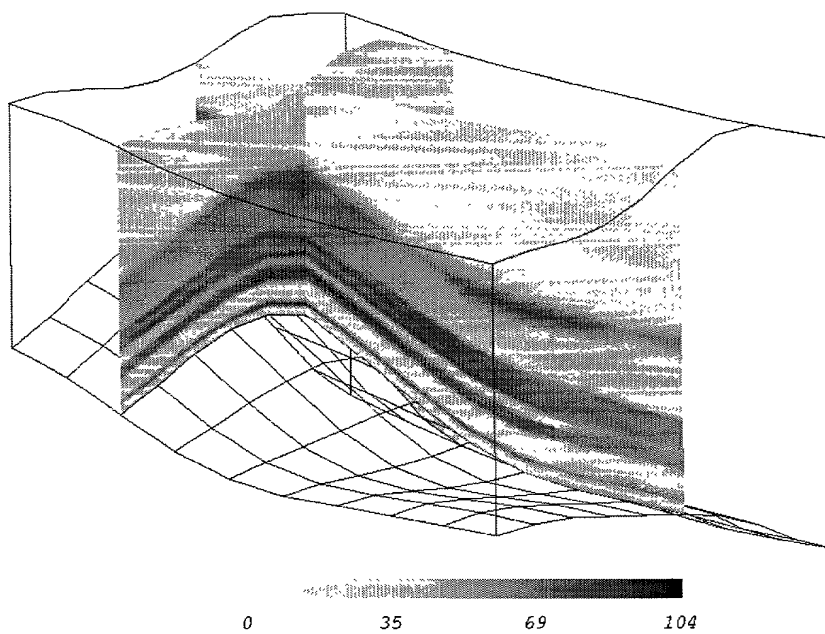


FIG. 9a

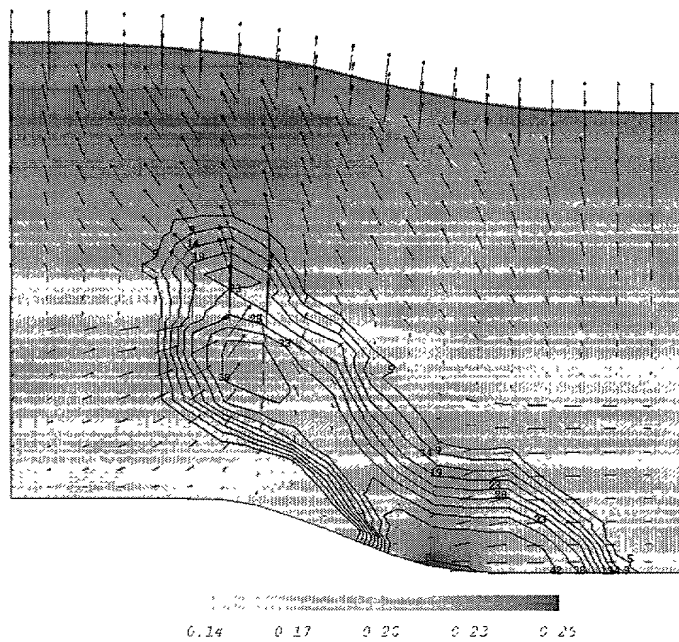


FIG. 9b

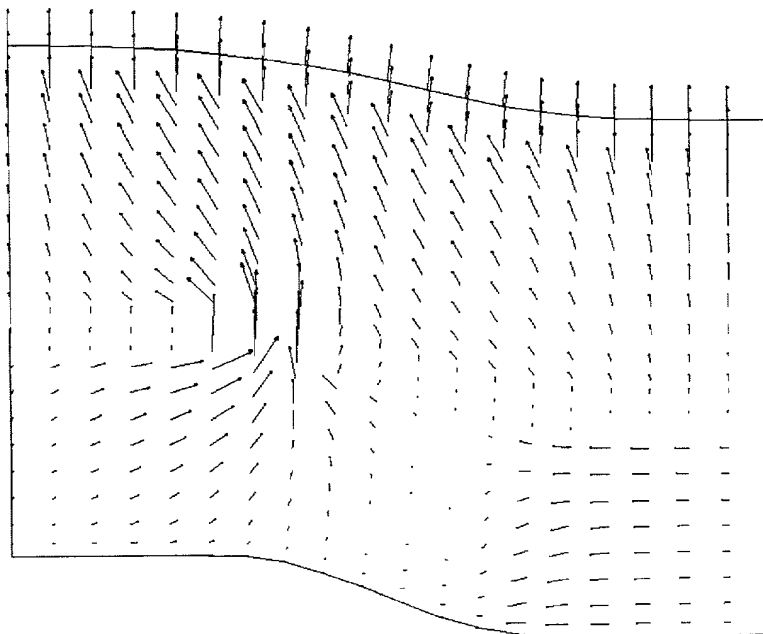


FIG. 10

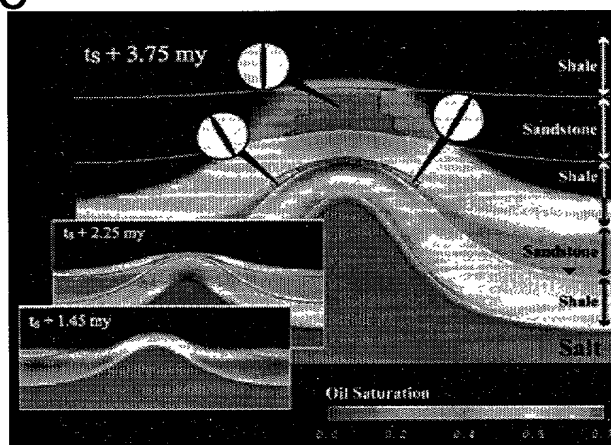


FIG. 11

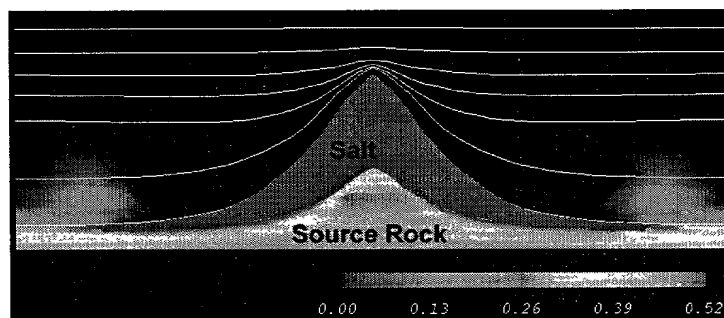




FIG. 12

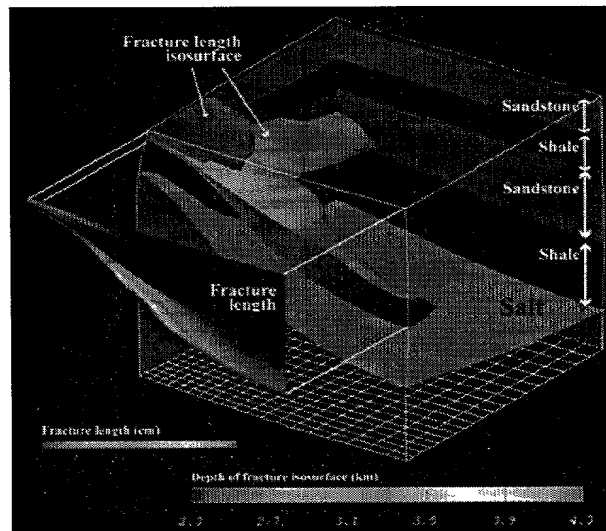


FIG. 13

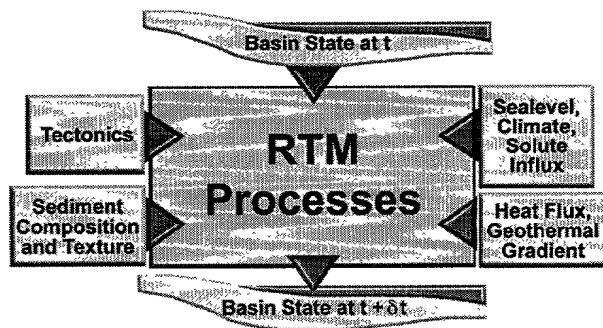


FIG. 14a

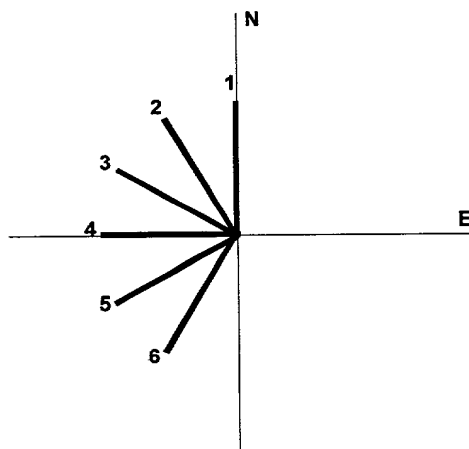
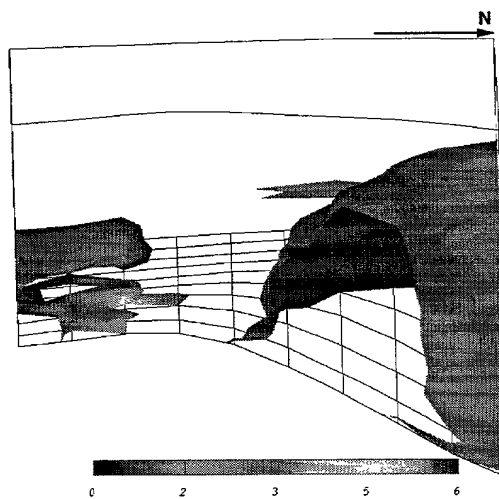


FIG. 14b



**FIG. 15**

<b>Type of Data</b>
Petroleum reserve assessment
Fracture analysis
Well log and seismic data
Tectonic and stress history
Thermal data and analysis
Stratigraphy
Data on organic content and thermal maturity
Fluid composition, pressure, and transport
Hydrothermal and magmatic fluids

FIG. 16

Total Permeability vs. Depth

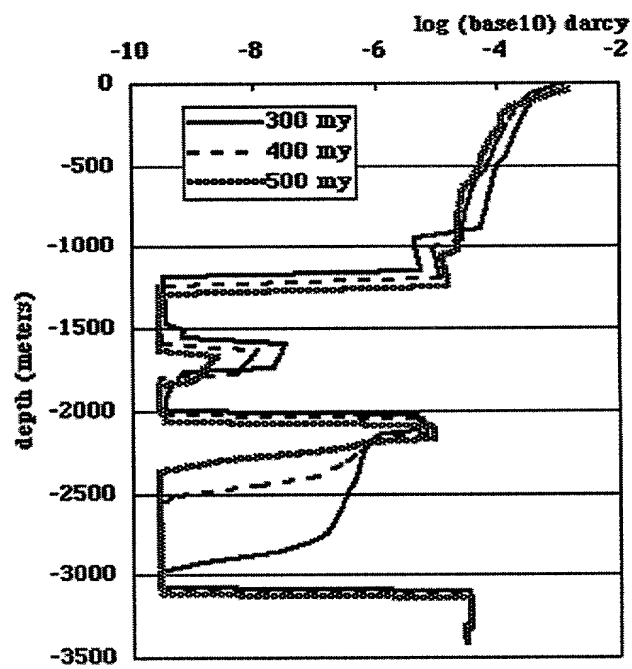


FIG. 17

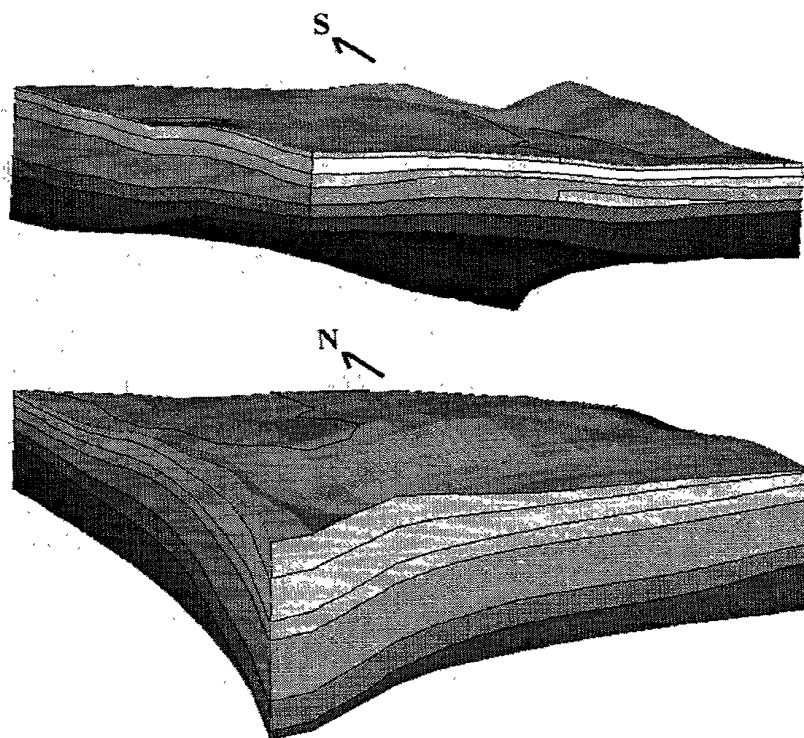


FIG. 18

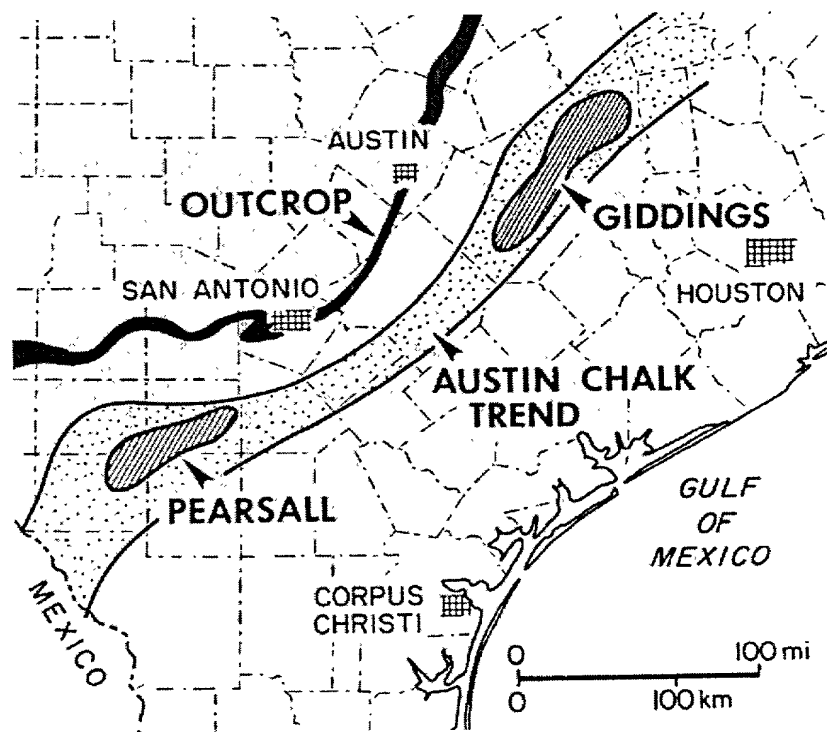
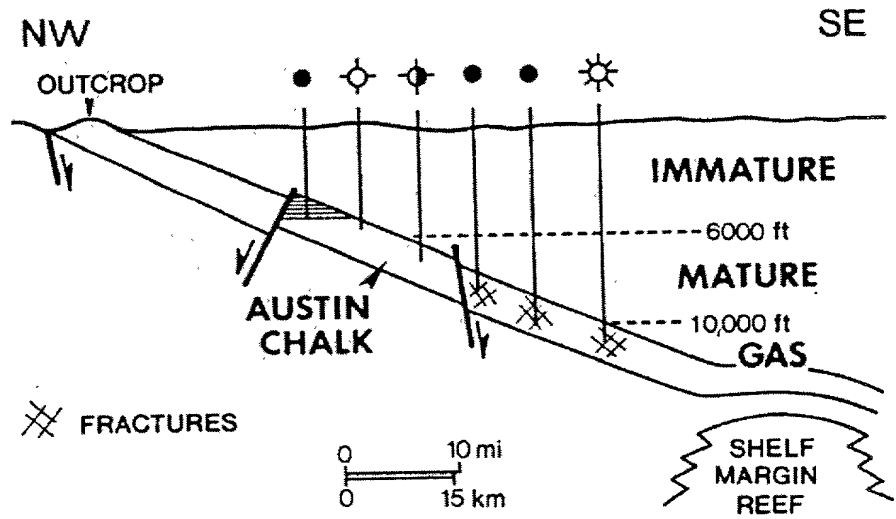
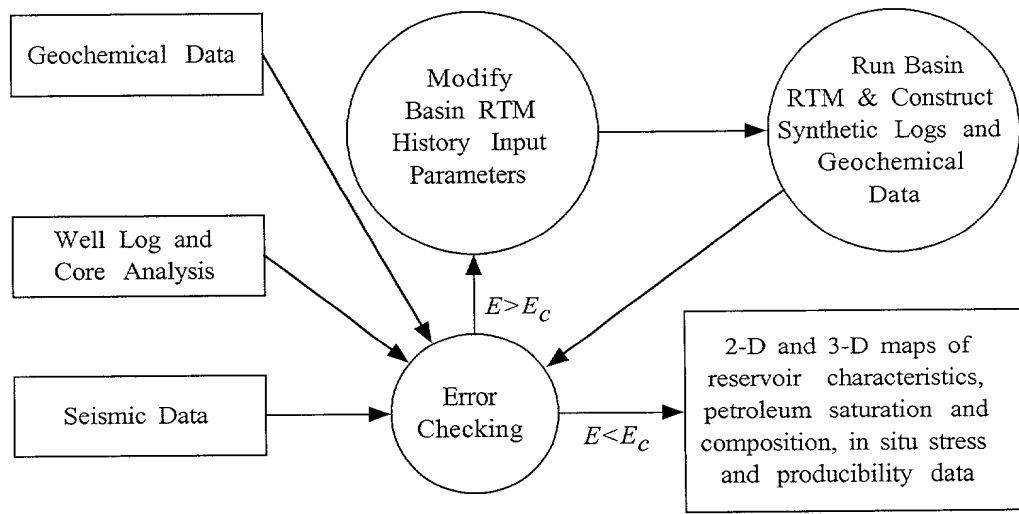




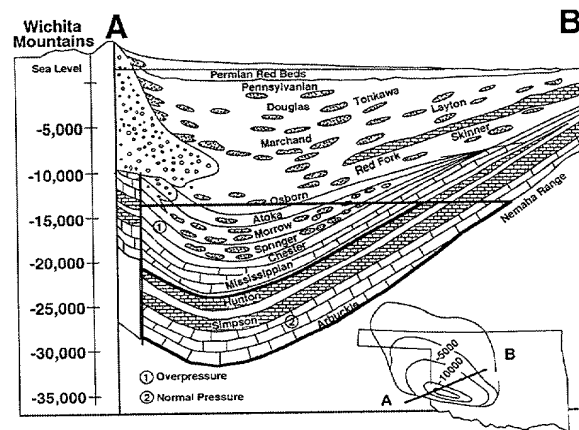
FIG. 19



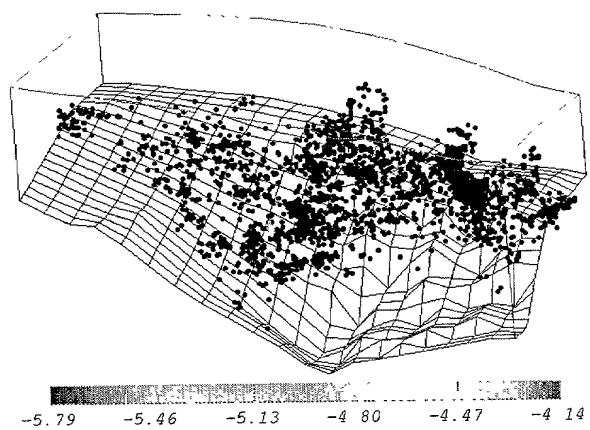




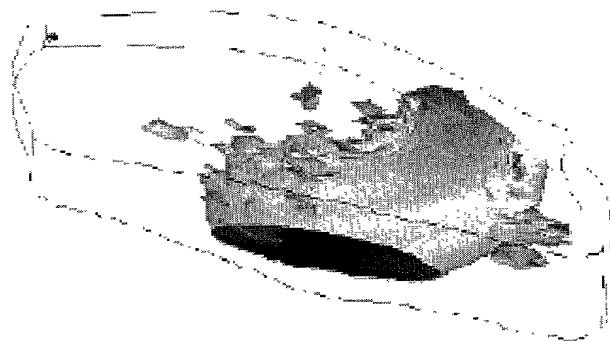
**FIG. 21**



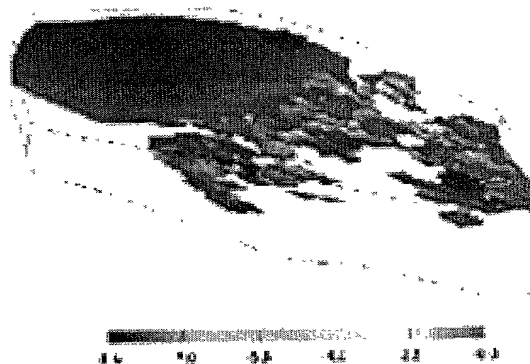
**FIG. 22a**



**FIG. 22b**

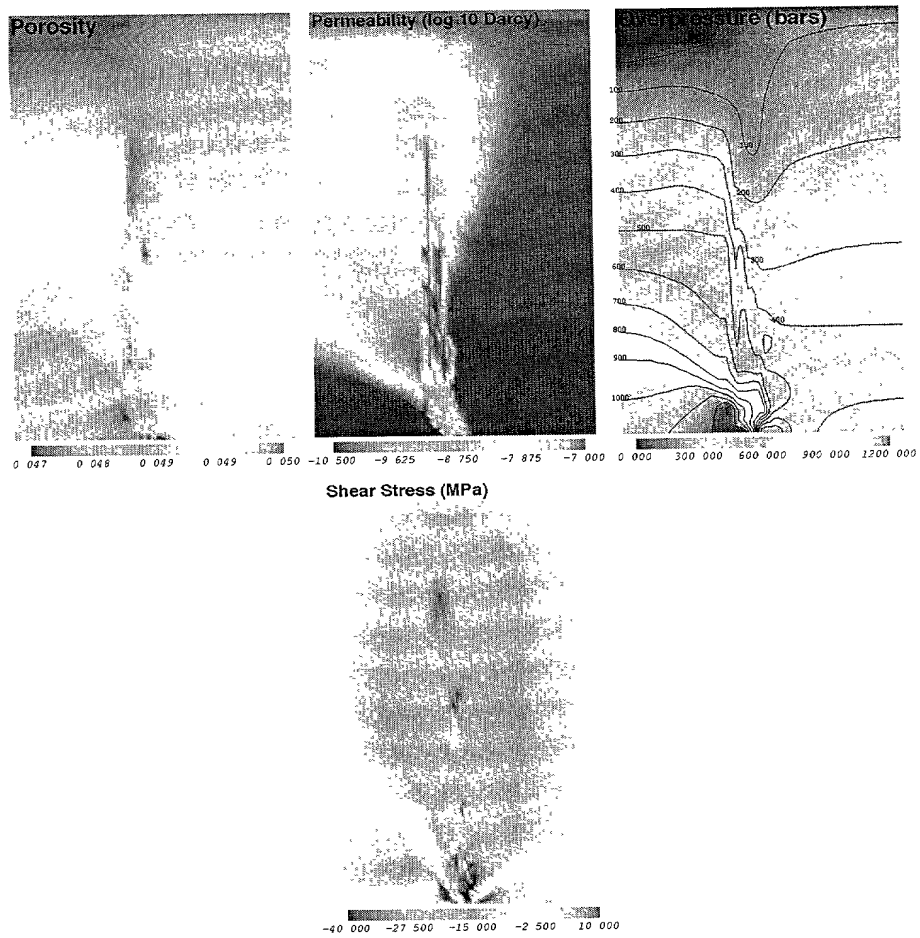


**FIG. 22c**



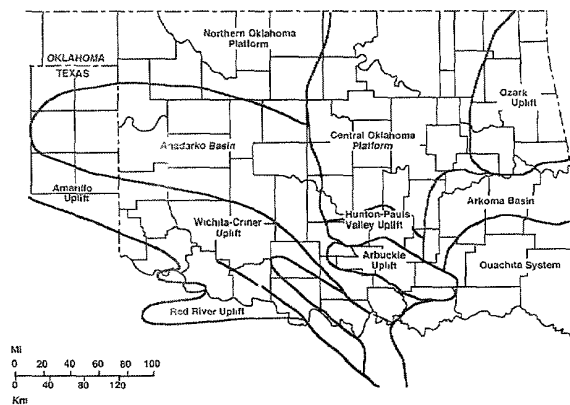
**FIG. 22d**

FIG. 22d

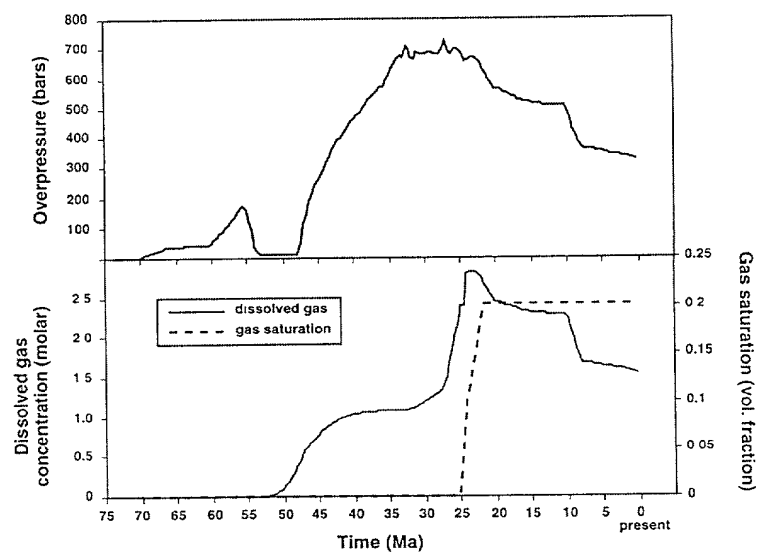


**FIG. 23**





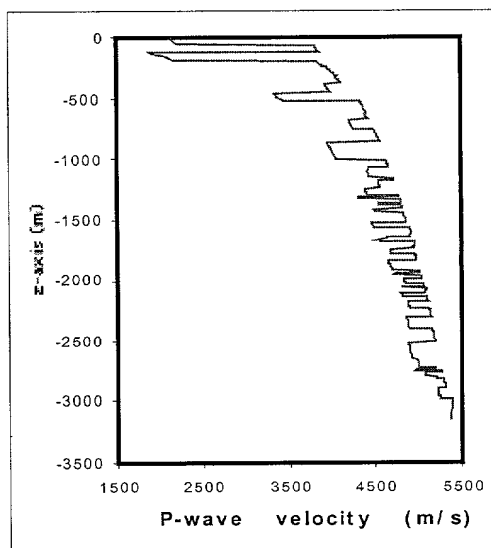
**FIG. 24**



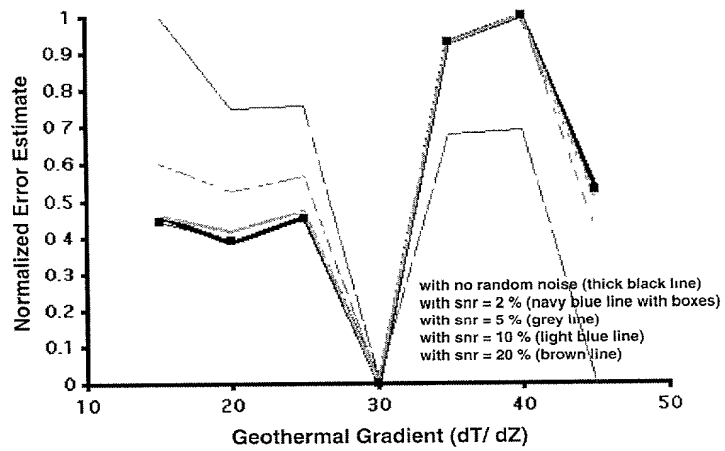
**FIG. 25**

Type of Log	Formulas	Experiments
Sonic	Bourbie et al. 1987; Tittman 1986	Bourbie et al. 1987
Density	Tittman 1986	Ahmadi and Coe 1997
Gamma	Tittman 1986	Ahmadi and Coe 1997
Resistivity	Revil et al. 1997; Tittman 1986	Penicol and Jing 1997; Donaldson et al. 1991
Permeability	Bastos et al. 1998; Tittman, 1986	Bastos et al. 1998
Neutron	Revil et al. 1997; Tittman 1986	
SP	Revil et al. 1997; Tittman 1986	

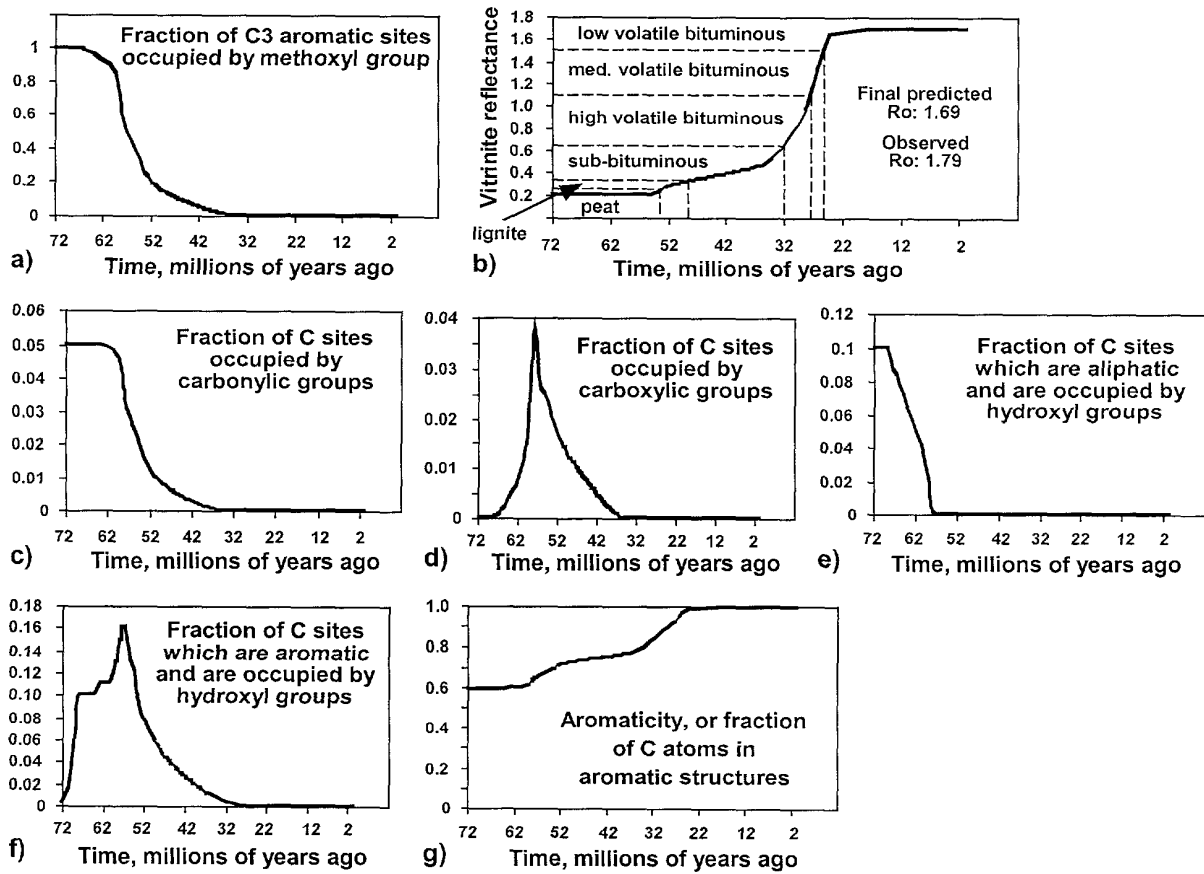
**FIG. 26**



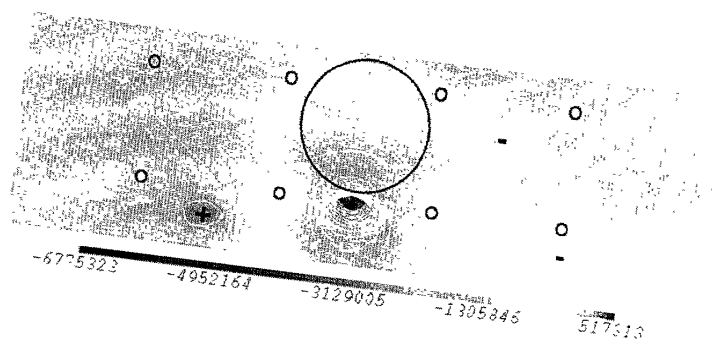
**FIG. 27a**



**FIG. 27b**

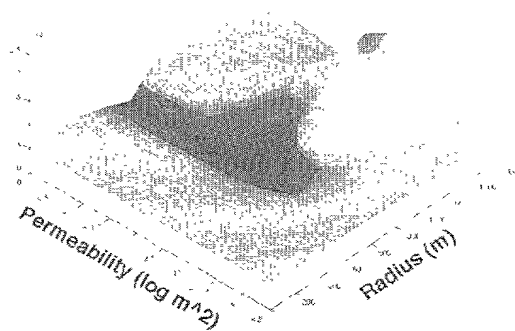


**FIG. 28**



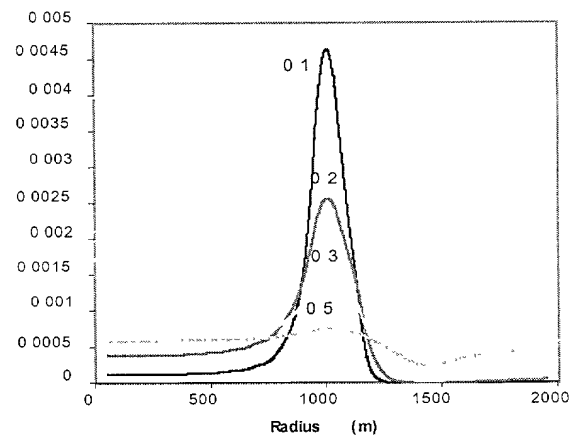
**FIG. 29a**

FIG. 29a



**FIG. 29b**





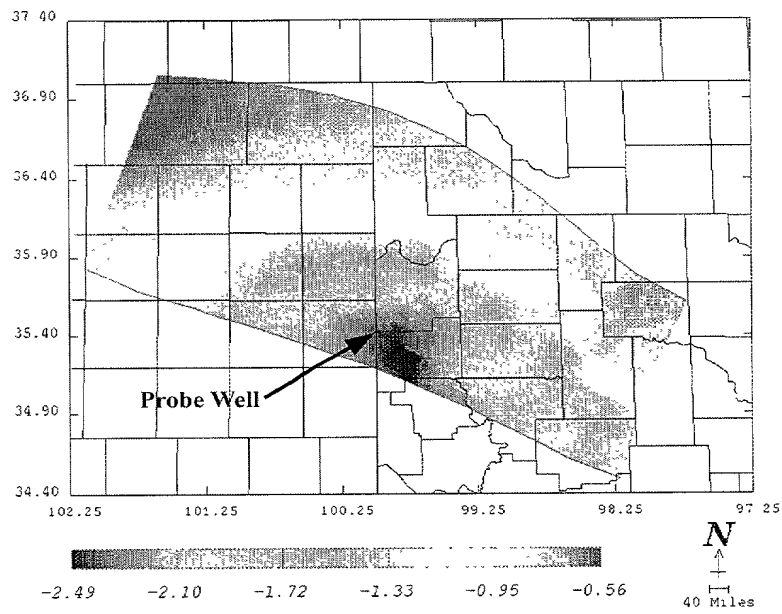
**FIG. 29c**

<b>Stratigraphic Interval</b>	<b>Cores</b>	<b>Thin Sections</b>
1. Missourian- Virgilian	20	122
2. Desmoinesian	46	502
3. Morrowan	51	655
4. Springeran	8	79
5. Hunton		
6. Woodford	7	57
7. Simpson		
8. Arbuckle		
<b>Total</b>	<b>166</b>	<b>2096</b>

**FIG. 30a**

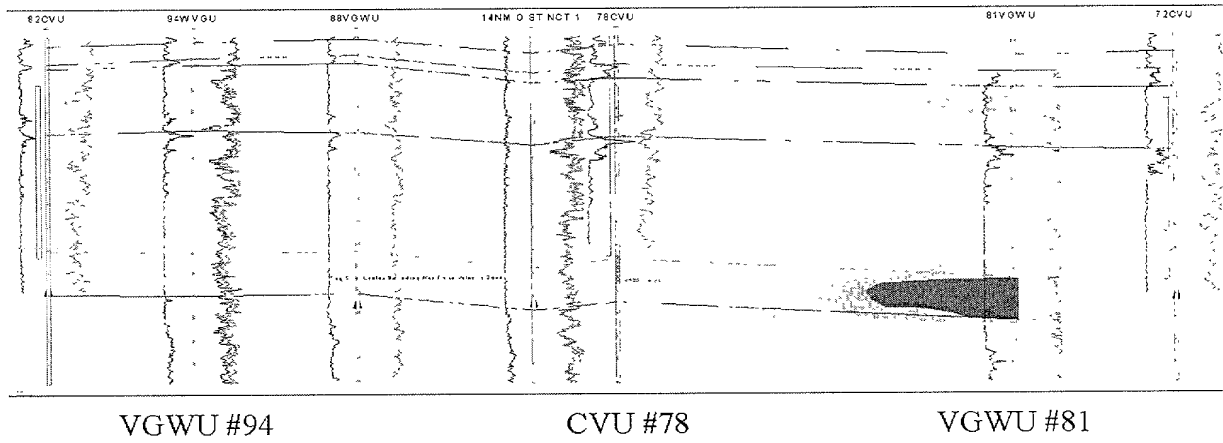
<b>Data Type</b>	<b># of Analysis</b>
Wire-line logs	3,000
Pressure Data	5,000
Capillary Pressure	15
Vitrinite Reflectance	72
Isotopic Analysis	52
Fluid Inclusion	267
Seismic Lines	2
Tectonic History (Time Depth Profiles)	12
Permeability	35
Fracture Analysis	166

**FIG. 30b**

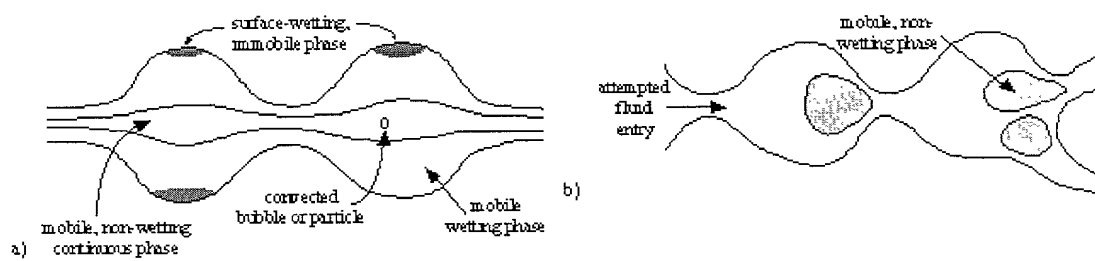


**FIG. 31**

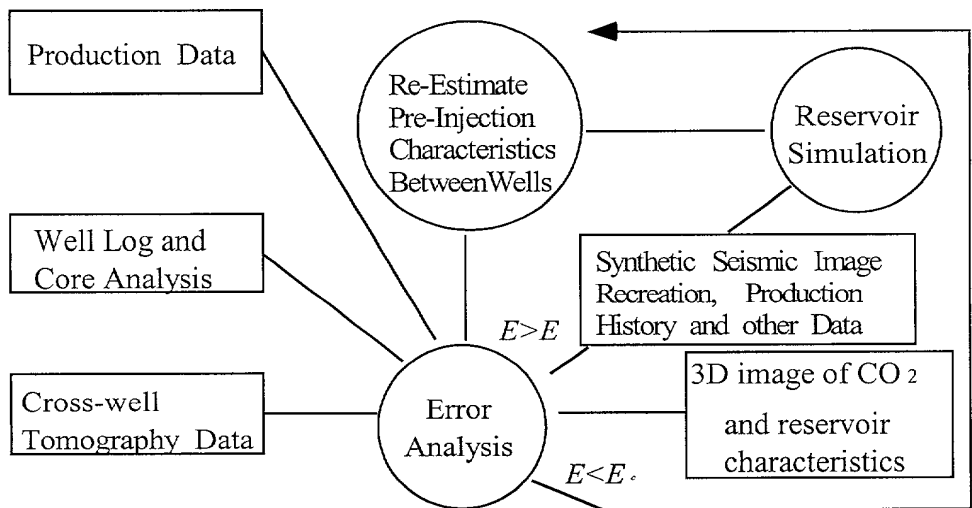
Section 36 Crosswell Data - Velocity Change Due To CO<sub>2</sub>, VGWU #94 to VGWU #81



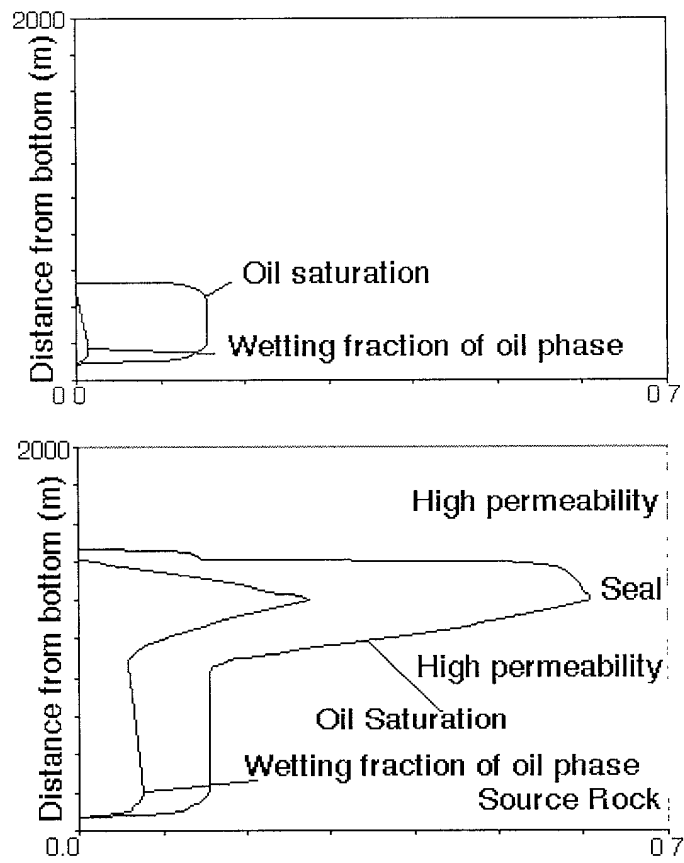
**FIG. 32**



**FIG. 33**

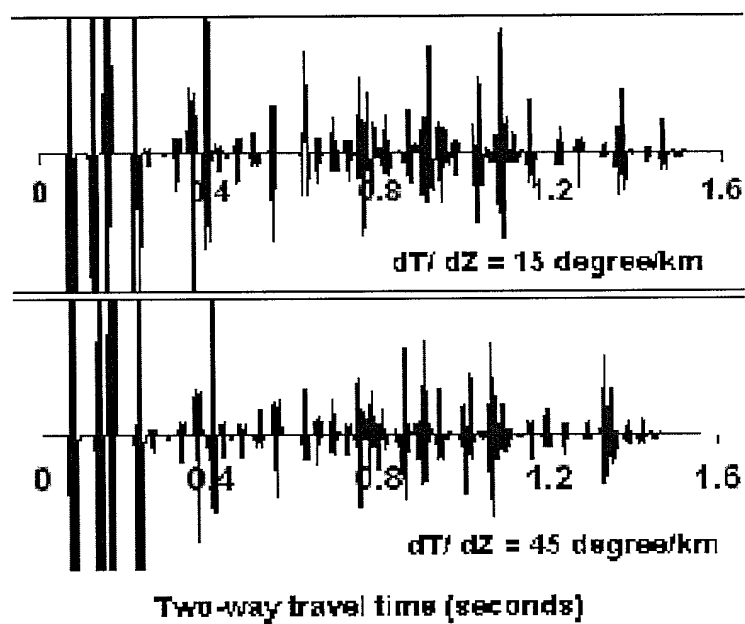


**FIG. 34**

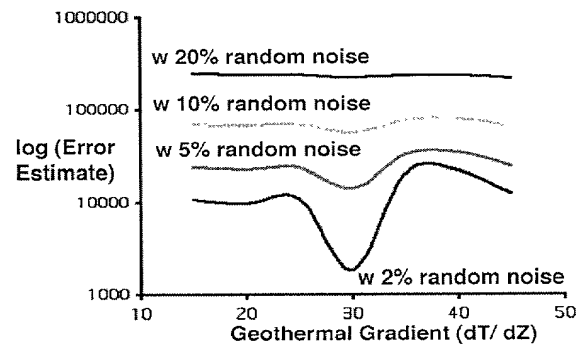


**FIG. 35**

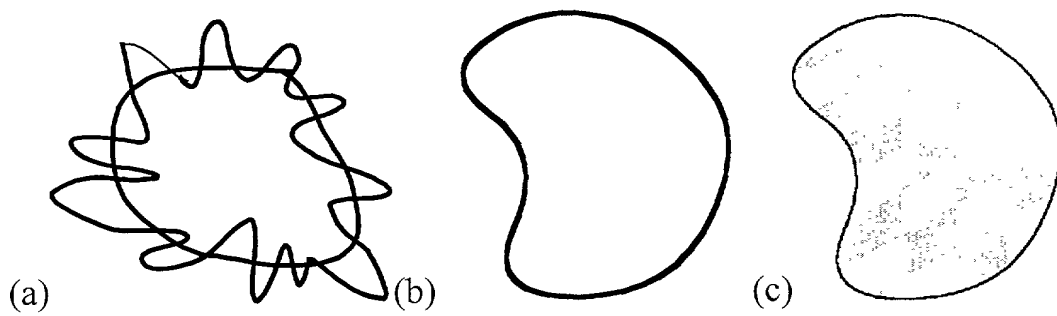




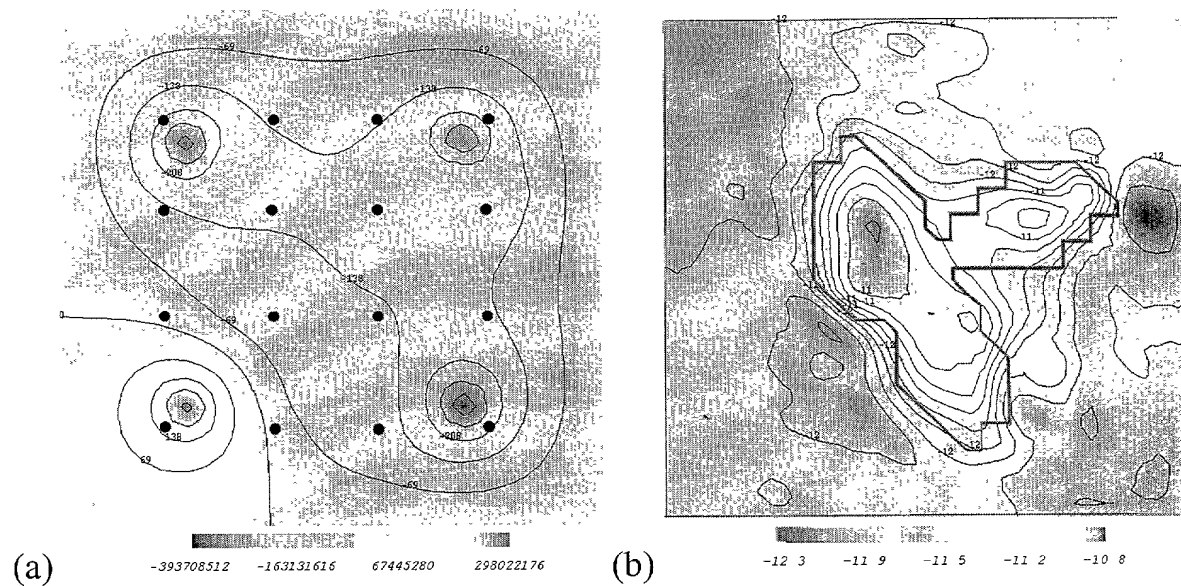
**FIG. 36**



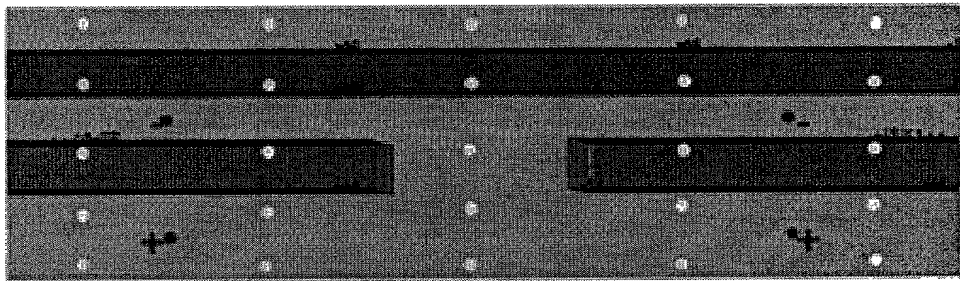
**FIG. 37**



**FIG. 38**



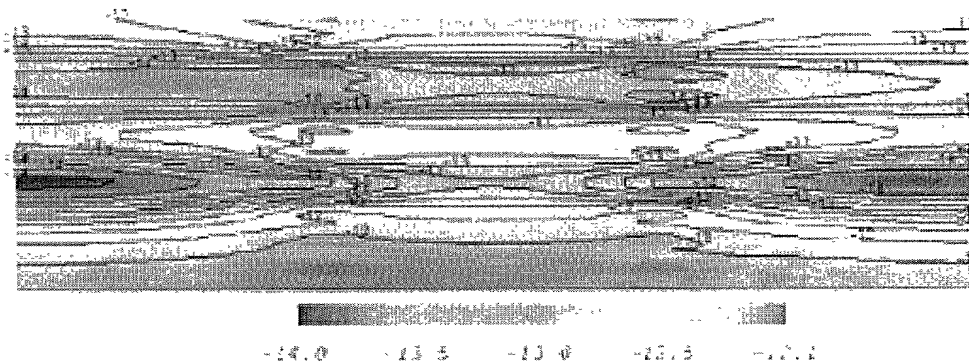
**FIG. 39**



14 0 15 0 16 0 17 0 18 0

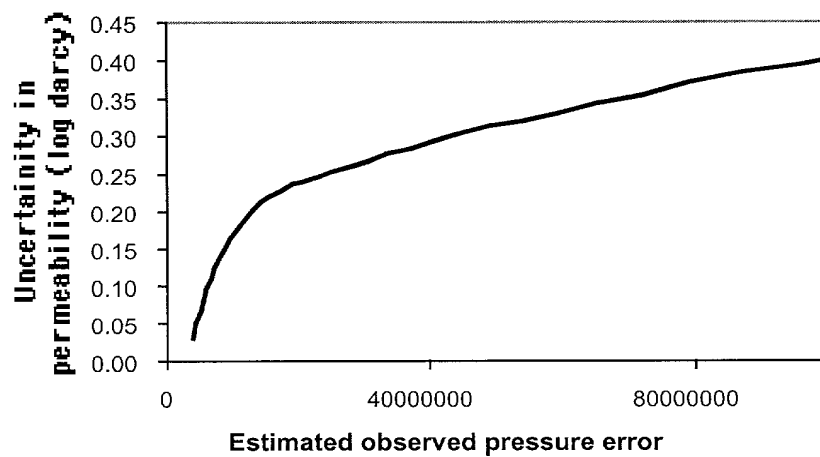
**FIG. 40a**

FIG. 40a

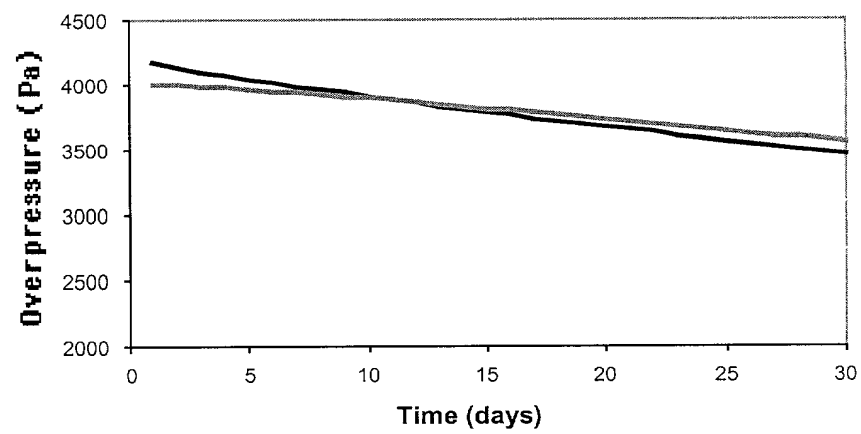


**FIG. 40b**

14.0 13.5 13.0 12.5 12.0



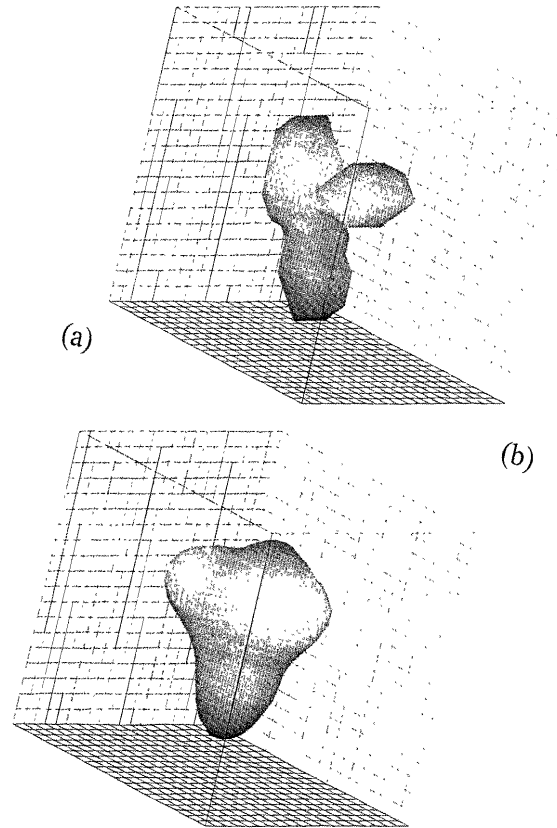
**FIG. 40c**

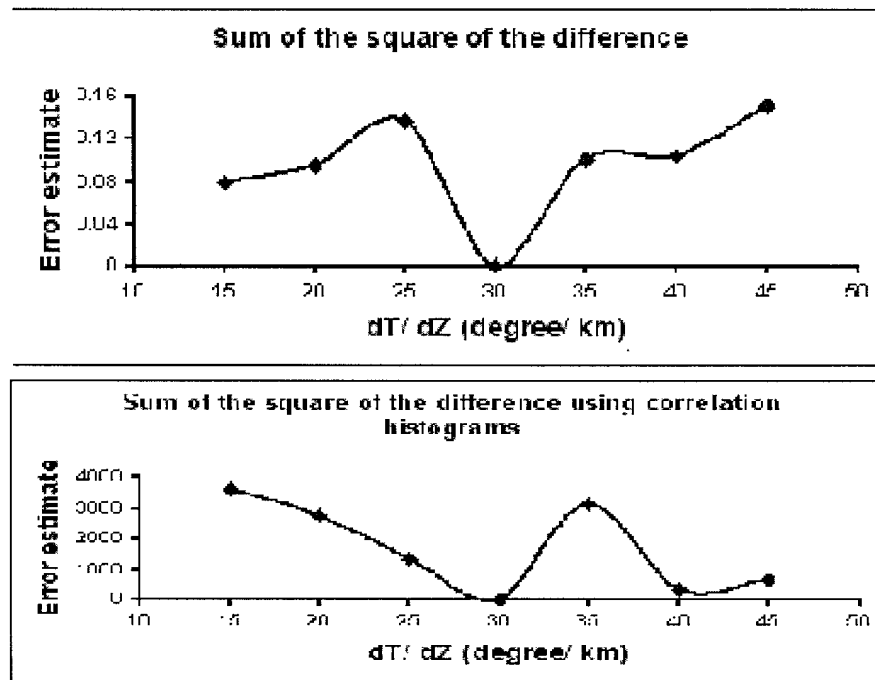


**FIG. 41**

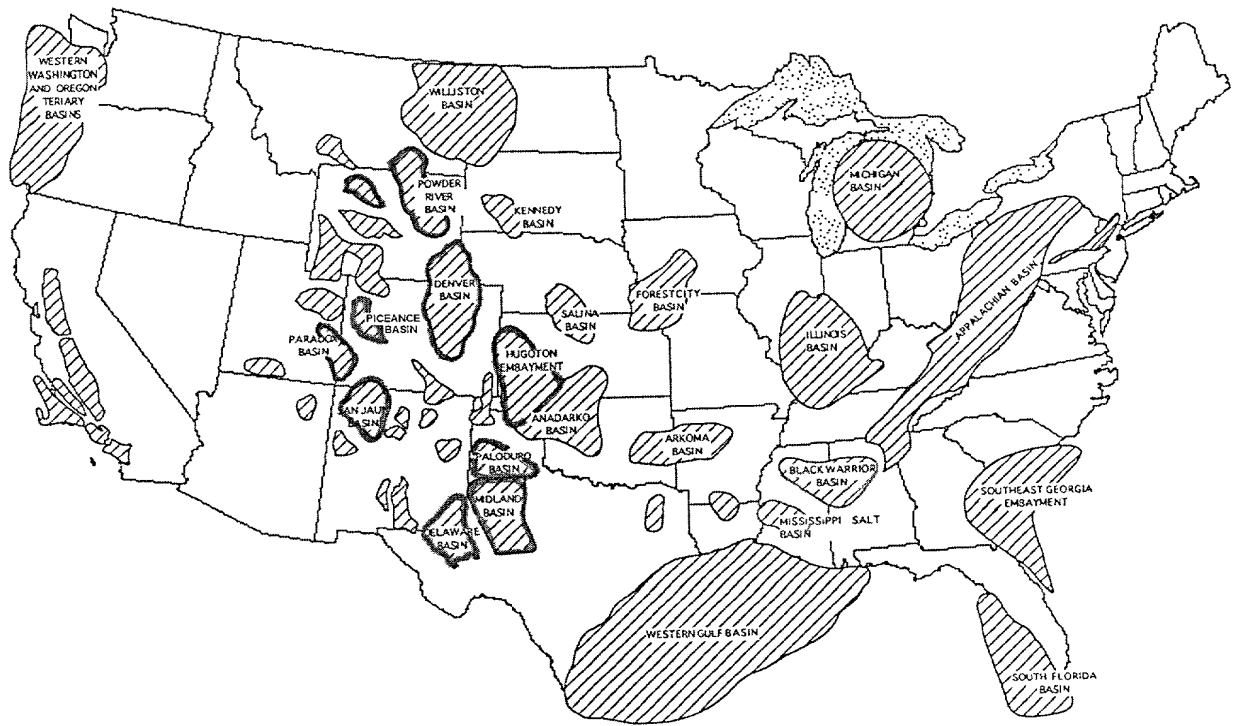


FIG. 42

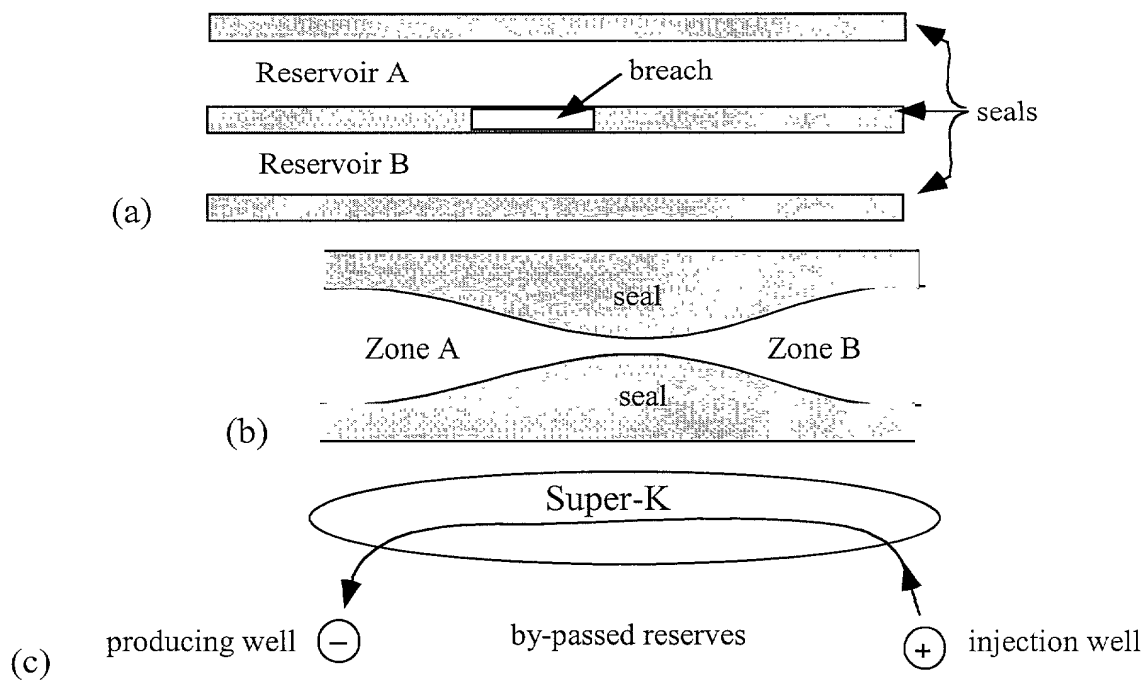




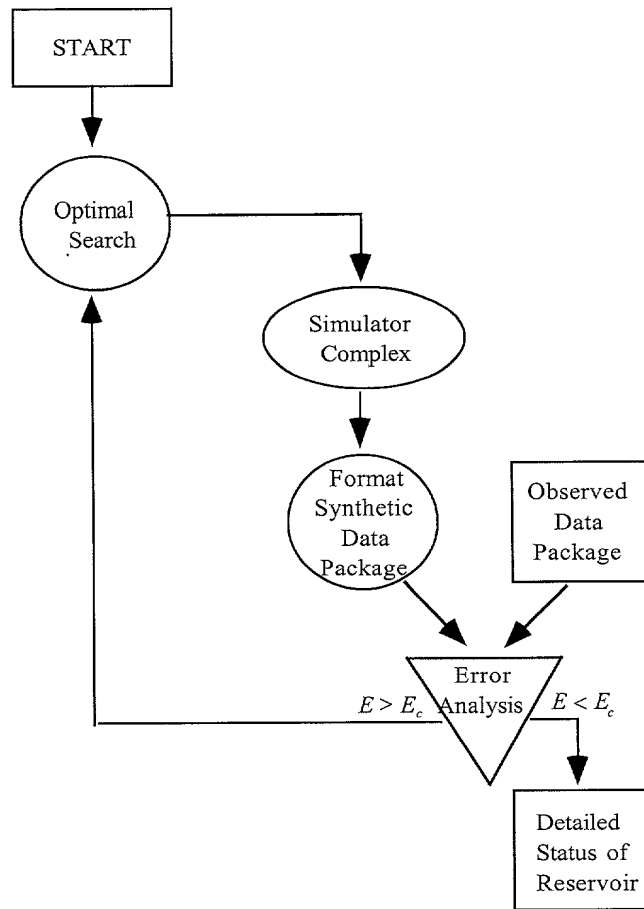
**FIG. 43**



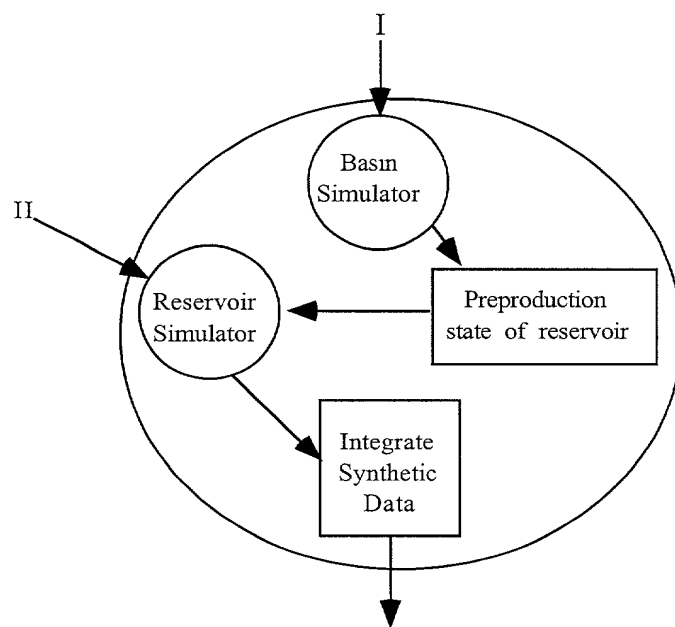
**FIG. 44**



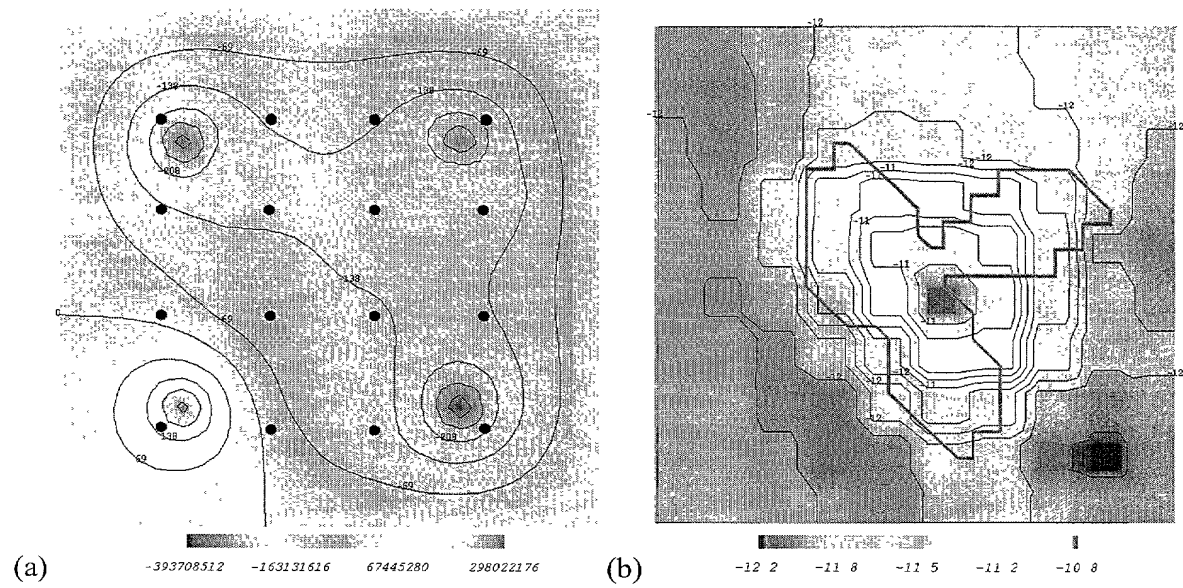
**FIG. 45**



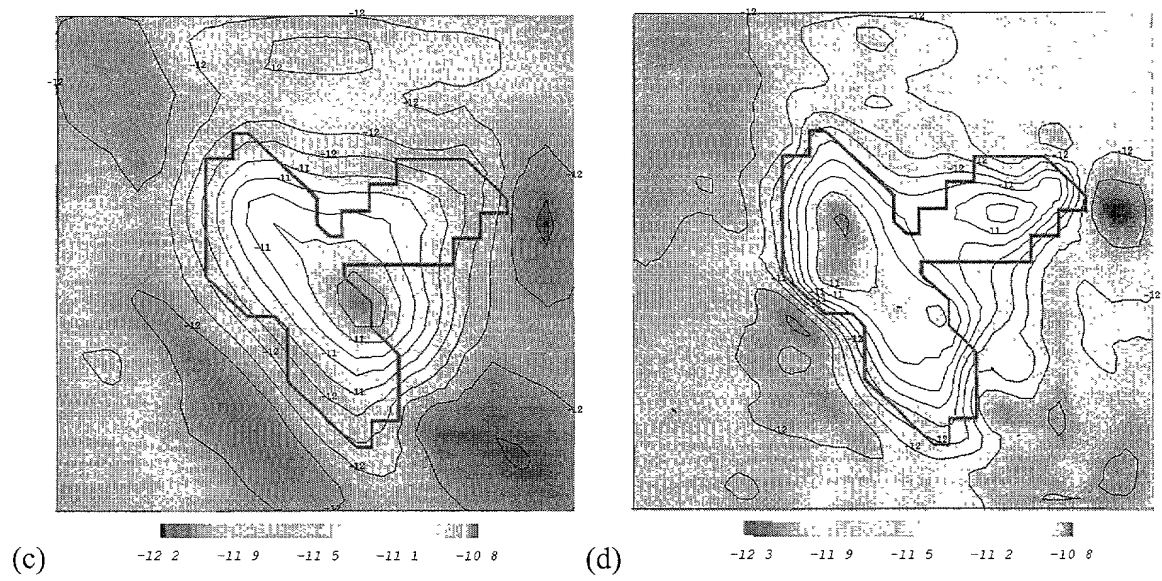
**FIG. 46**



**FIG. 47**

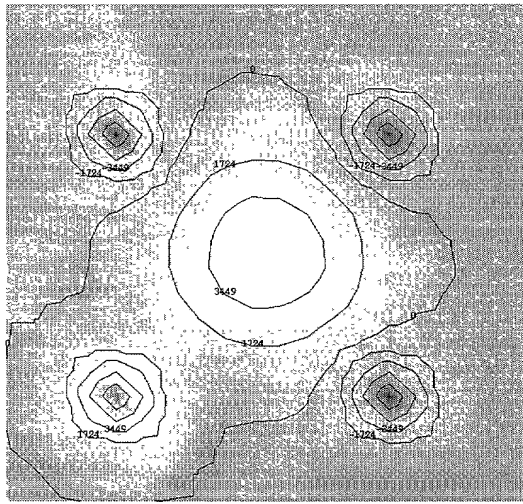


**FIGs. 48a and 48b**

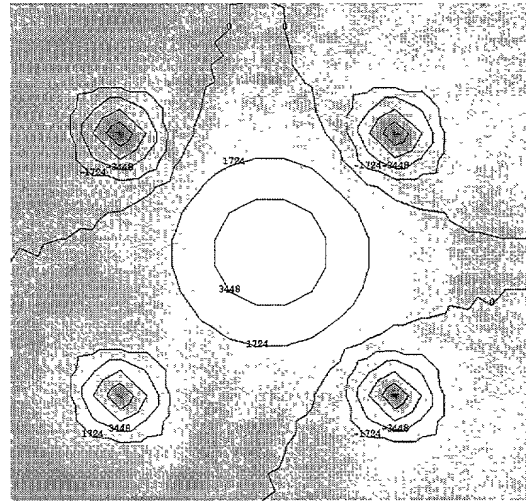


**FIGs. 48c and 48d**

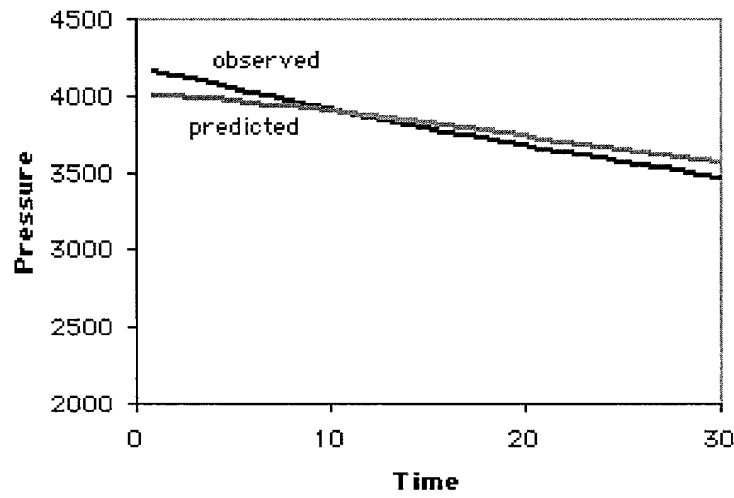




(a)



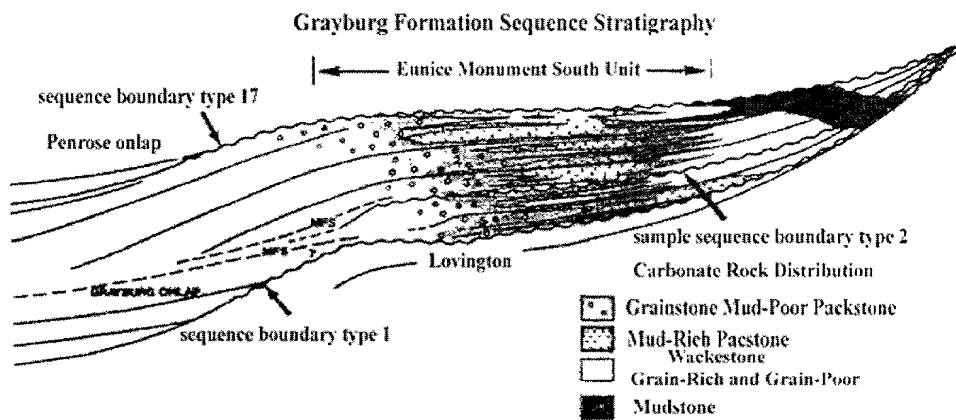
(b)



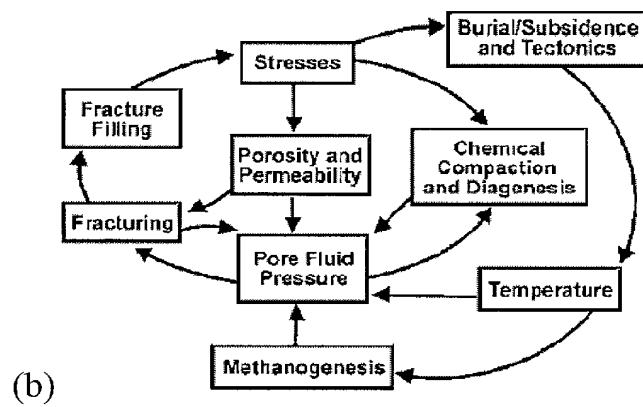
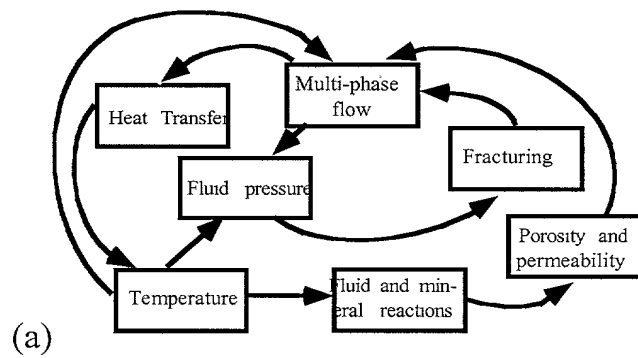
(c)

**FIG. 49**

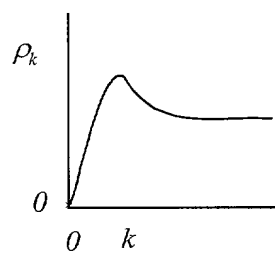




**FIG. 50b**



**FIG. 51**



**FIG. 52**